

Australian/New Zealand Standard™

Gas appliances

Part 1.4: Radiant gas heaters



AS/NZS 5263.1.4:2017

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Australian Gas Association
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Energy Efficiency and Conservation Authority of New Zealand
Energy Networks Association
Gas Appliance Manufacturers Association of Australia
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Originated in Australia in part as AS 4565/AG 405—2001 and AG 115—1985.
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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee AG-001, Gas Appliances, to supersede AS 4565—2004, *Radiant gas heaters for outdoor and non-residential indoor use*, and AS 4643—2007, *Overhead radiant tube gas heaters*.

This Standard provides particular requirements for radiant gas heating appliances that apply in addition to or in place of the general requirements for gas appliances set out in AS/NZS 5263.0, *Gas appliances, Part 0: General requirements*. The combination of AS/NZS 5263.1.4 and AS/NZS 5263.0 supersedes AS 4565—2004 and AS 4643—2007.

This Part 1.4 of AS/NZS 5263, supplements or modifies the corresponding clauses of Part 0. The numbering of Clauses in this Part 1.4 is consistent with the numbering in Part 0 for related requirements.

Statements used in this Part 1.4 to explain the relationship of clauses in this Standard to the corresponding Clause of Part 0 are as follows:

- (a) ‘This Clause of AS/NZS 5263.0 applies’, in which case the corresponding Clause of Part 0 and its subclauses are used without modification.
- (b) ‘This Clause of AS/NZS 5263.0 applies, except as modified below’, in which case the corresponding Clause of Part 0 and its subclauses are used but with the modifications, as listed in this document.
- (c) ‘Not applicable’, in which case the corresponding Clause of Part 0 is not used in this context.

Otherwise the text in this Standard replaces the corresponding Clause of Part 0.

Any Clauses in this Standard that are additional to the requirements of Part 0 are numbered beginning from 101 (except for additional definitions, which begin from 201). Additional Appendices in this Part 1.4 are designated with a letter starting from AA, or numbered beginning from 101 (e.g. ZA101).

Where an Appendix, or part of an Appendix (i.e. Paragraph, Figure, or Table) is cited in this Standard, reference should first be made to Part 0 for the content of the Appendix, which may be modified by this Part 1.4.

The objective of this Standard is to provide manufacturers, designers, regulatory authorities, conformity assessment bodies and similar organizations with uniform minimum requirements for the safety, performance and use of gas appliances.

This Standard should not be regarded as a design specification or as an instruction manual. Consideration has been given to—

- (i) continuity of satisfactory operation;
- (ii) the prevention of fire hazards and explosions;
- (iii) the prevention of injury to persons or property;
- (iv) gas rules and regulations now in force; and
- (v) relevant international Standards.

AS/NZS 5601 series of Standards provides essential requirements and means of compliance for gas installations. Any reference to ‘AS/NZS 5601’ in AS/NZS 5263 series of Standards should be considered as reference to the appropriate part of the AS/NZS 5601 series of Standards (i.e. AS/NZS 5601.1 or AS/NZS 5601.2).

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

Statements expressed in mandatory terms in notes and footnotes to tables and figures are deemed to be requirements of this Standard.

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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE AND APPLICATION**1.1.1 Scope**

This Standard provides specific requirements and test methods for—

- (a) flueless, radiant gas heating appliances with energy input not exceeding 70 MJ/h, intended for operation in outdoor areas and non-residential indoor areas. These may be for portable use or fixed installation.
- (b) overhead radiant tube heaters with energy input not exceeding 500 MJ/h, for fixed installation only.

For Australia, the fuel gases are natural gas (as described by AS 4564), town gas, liquefied petroleum gas (LP Gas, as described by AS 4670), simulated natural gas (SNG) and tempered liquefied petroleum gas (TLP).

For New Zealand—

- (i) The fuel gases are natural gas (as specified in NZS 5442) and general product liquefied petroleum gas (NZLPG) (as specified in NZS 5435).
- (ii) The thermal efficiency requirements are informative only, except where they relate to safety.

Appendix AA provides figures referenced in this Standard that are in addition to those in AS/NZS 5263.0.

Test methods are set out in Appendices ZA, ZB and ZC (see Clause 1.4).

NOTE: Other statutory or regulatory requirements may be applicable to a product that falls within the scope of this Standard. It is the responsibility of the manufacturer, importer or distributor (as appropriate) to ensure that products comply with such requirements.

1.1.2 Application

This Standard is complementary to, and is intended to be used in conjunction with AS/NZS 5263.0. The requirements given herein shall take precedence over corresponding requirements in that Standard.

AS 3645 specifies essential requirements for gas equipment that requires regulatory approval before sale. This Standard, together with AS/NZS 5263.0, is intended to provide a means of demonstrating compliance with AS 3645.